

**CLAIMS:**

1. A method of generating a password for use by an end-user device (UE) to access a remote server, comprising:
  - 5 sending a request for access from the UE to the remote server;
  - creating a temporary identity for the UE;
  - sending to an authentication node in the UE's home network details of the request for access;
  - at the authentication node or the remote server, generating a Hypertext Transfer Protocol (HTTP) Digest challenge using an algorithm capable of generating end-user passwords, including details of the temporary identity of the UE;
  - 10 at the UE, generating a password based on the HTTP Digest challenge, said password being associated with the identity of the remote server and the identity of the UE; and
  - 15 storing the password and the temporary identity of the UE at the UE.
2. A method as claimed in claim 1, wherein the algorithm capable of generating end-user passwords is HTTP Digest Authentication and Key Agreement (AKA).
- 20 3. A method as claimed in claim 1 or 2, further comprising sending the identity of the remote server to the authentication node, wherein the step of generating the HTTP Digest challenge includes using the identity of the remote server, and wherein the identity of the remote server is stored at the UE.
- 25 4. A method as claimed in claim 1, 2 or 3, wherein the temporary identity of the UE is created at the remote server.
- 30 5. A method as claimed in any preceding claim, wherein the step of sending details of the request for access to the authentication node includes redirecting the request for access to the authentication node.

6. A method as claimed in claim 5, wherein the HTTP Digest challenge is generated at the authentication node and sent from the authentication node directly to the UE.
5. 7. A method as claimed in claim 5 or 6, wherein the password is stored at the authentication node.
8. A method as claimed in claim 5, 6 or 7, further comprising authenticating the UE at the authentication node and redirecting the request for access from the authentication node back to the remote server after the password has been generated.  
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9. A method as claimed in any of claims 1 to 4, wherein the step of sending details of the request for access to the authentication node includes the remote server contacting the authentication node directly.  
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10. A method as claimed in claim 9, wherein the HTTP Digest challenge is generated at the authentication node and sent from the authentication node to the remote server.
- 20 11. A method as claimed in claim 9, wherein the HTTP Digest challenge is generated at the remote server.
12. A method as claimed in claim 10 or 11, further comprising sending the HTTP digest challenge from the remote server to the UE.  
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13. A method as claimed in claim 11, further comprising including a HTTP Digest AKA challenge password in the information sent from the authentication node to the remote server and authenticating the UE at the remote server.

14. A method as claimed in any of claims 9 to 12, further comprising authenticating the UE at the authentication node and returning an authentication result to the remote server.

5 15. A method of accessing a remote server from an end-user device (UE), the method comprising:

generating and storing a password using a method as claimed in any of the preceding claims;

sending a request for access from the UE to the remote server;

10 at the remote server, generating a Hypertext Transfer Protocol (HTTP) Digest challenge including details of the identity of the remote server and sending the challenge to the UE; and

at the UE, sending an authentication response including the temporary identity of the UE and a proof of possession of the password to the remote server.

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16. A method as claimed in claim 15, further comprising sending an authentication request from the remote server to the authentication node, sending the password from the authentication node to the remote server, and authenticating the UE at the remote server.

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17. A method as claimed in claim 15, further comprising sending an authentication request from the remote server to the authentication node, authenticating the UE at the authentication node, and sending confirmation of authentication from the authentication node to the remote server.

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